Author index

A

ARBUCKLE, GORDON R., AND SONDHI, ANOOP. Canine root movement: An evaluation of root springs, 626

B

BEGOLE, ELLEN A. (*See* SONDHI, CLEALL, AND BEGOLE), 60

BELL, WILLIAM H. (*See* JACOBS ET AL.), 284

BUCHMAN, DENNIS J. L. Effects of recycling on metallic direct-bond orthodontic brackets, 654

BURSTONE, CHARLES J., AND GOLDBERG, A. JON. Beta titanium: A new orthodontic alloy, 121

C

CHACONAS, SPIRO. (*See* ENGEL ET AL.), 1

CHATE, R. A. C. A cephalometric appraisal of xeroradiography, 547

CHERTKOW, SEYMOUR. Tooth mineralization as an indicator of the pubertal growth spurt, 79

CLEALL, JOHN F. (*See* SONDHI, CLEALL, AND BEGOLE), 60

CORNFORTH, GARY. (*See* ENGEL ET AL.), 1

D

DAMERELL, J. M. (*See* ENGEL ET AL.), 1

DASGUPTA, GAUTAM. (*See* MOSS ET AL.), 591

DAVIDOVITCH, ZEEV, FINKELSON, MATHEW D., STEIGMAN, SHULAMIT, SHANFELD, JOSEPH L., MONTGOMERY, PAUL C., AND KOROSTOFF, EDWARD. Electric currents, bone remodeling, and orthodontic tooth movement. I. The effect of electric currents on periodontal cyclic nucleotides, 14

—, —, —, —, —, AND —. Electric currents, bone remodeling, and orthodontic tooth movement. II. Increase in rate of tooth movement and periodontal cyclic nucleotide levels by combined force and electric current, 33

E

ENGEL, GARY, CORNFORTH, GARY, DAMERELL, J. M., GORDON, JOSEPH, LEVY, PAULA, MCALPINE, JAMES, OTTO, RONALD, WALTERS, ROLAND, AND CHACONAS, SPIRO. Treatment of deep-bite cases, 1

ENLOW, DONALD H. (*See* KURIHARA AND ENLOW), 516, 532

F

FINKELSON, MATHEW D. (*See* DAVIDOVITCH ET AL.), 14, 33

FRIED, NEIL. (*See* ROTBERG ET AL.), 636

G

GOLDBERG, A. JON. (*See* BURSTONE AND GOLDBERG), 121

GORDON, JOSEPH. (*See* ENGEL ET AL.), 1

GRABER, LEE W., AND LUCKER, G. WILLIAM. Dental esthetic self-evaluation and satisfaction, 163

GUYMAN, GREGORY W., KÓKICH, VINCENT G., AND OSWALD, ROBERT J. Ankylosed teeth as abutments for palatal expansion in the rhesus monkey, 486

H

HEYDEN, GUY. (*See* RÖNNERMAN, THILANDER, AND HEYDEN), 620

HÖYMYHR, SVEIN. (*See* ZACHRISSON, SKOGAN, AND HÖYMYHR), 307

I

ISAKSEN, TORE S. (*See* WISTH AND ISAKSEN), 174

J

JACOBS, JOE D., BELL, WILLIAM H., WILLIAMS, CRAIG E., AND KENNEDY, JOE W., III. Control of the transverse dimension with surgery and orthodontics, 284

JACOBSON, ALEX. (*See* JACOBSON AND JACOBSON), 92

JACOBSON, RICK L., AND JACOBSON, ALEX. Point A revisited, 92

January, pp. 1-120; February, pp. 121-240; March, pp. 241-354; April, pp. 355-468; May, pp. 469-590; June, pp. 591-718.

JACOBSSON, STEN. (*See* RUNE ET AL.), 643

K

KANE, JAMES. (*See* ROTBERG ET AL.), 636
KARDOS, THOMAS B., AND SIMPSON, LESLIE O. A new periodontal membrane biology based upon thixotropic concepts, 508
KENNEDY, JOE W., III, (*See* JACOBS ET AL.), 284
KÖKICH, VINCENT G. (*See* GUYMAN, KÖKICH, AND OSWALD), 486
KONIGSBERG, SIDNEY. (*See* NORTHWAY AND KONIGSBERG), 146
KOROSTOFF, EDWARD. (*See* DAVIDOVITCH ET AL.), 14, 33
KURIHARA, SABURO, AND ENLOW, DONALD H. An electron microscopic study of attachments between periodontal fibers and bone during alveolar remodeling, 516
— AND —. A histochemical and electron microscopic study of an adhesive type of collagen attachment on resorptive surfaces of alveolar bone, 532

L

LAMBERTON, CLARK M., REICHART, PETER A., AND TRIRATANANIMIT, PONGSRI. Bimaxillary protrusion as a pathologic problem in the Thai, 320
LEVY, PAULA. (*See* ENGEL ET AL.), 1
LOPEZ, JAMES I. Retentive shear strengths of various bonding attachment bases, 669
LUCKER, G. WILLIAM. (*See* GRABER AND LUCKER), 163

M

MARKS, MEYER B. Bruxism in allergic children, 48
MCALPINE, JAMES. (*See* ENGEL ET AL.), 1
MEIKLE, MURRAY C. The dentomaxillary complex and overjet correction in Class II, Division 1 malocclusions: Objectives of skeletal and alveolar remodeling, 184
MONTGOMERY, PAUL C. (*See* DAVIDOVITCH ET AL.), 14, 33
MORSE, P. K. (*See* WILLIAMSON ET AL.), 133
MOSS, MELVIN L., SKALAK, RICHARD, DASGUPTA, GAUTAM, AND VILMANN, HENNING. Space, time, and space-time in craniofacial growth, 591
MURRAY, ROBERT B. Mandibular sagittal subapical osteotomy: A case study, 469

N

NACHBAR, ARTHUR S. Nonextraction treatment started in the mixed dentition, 98
NORTHWAY, WILLIAM M., AND KONIGSBERG, SIDNEY. Autogenic tooth transplantation, 146

O

OSWALD, ROBERT J. (*See* GUYMAN, KÖKICH, AND OSWALD), 486
OTTO, RONALD. (*See* ENGEL ET AL.), 1

P

PANCHERZ, HANS. Activity of the temporal and masseter muscles in Class II, Division 1 malocclusions, 679
PHILLIPS, CEIB. (*See* VIG, SHOWFETY, AND PHILLIPS), 258
PUS, MARK DANIEL, AND WAY, DAVID C. Enamel loss due to orthodontic bonding with filled and unfilled resins using various clean-up techniques, 269

R

RACEY, GARY L. (*See* WADE AND RACEY), 613
REICHART, PETER A. (*See* LAMBERTON, REICHART, AND TRIRATANANIMIT), 320
RÖNNERMAN, ASSAR, THILANDER, BIRGIT, AND HEYDEN, GUY. Gingival tissue reactions to orthodontic closure of extraction sites, 620
ROTBERG, SAUL, FRIED, NEIL, KANE, JAMES, AND SHAPIRO, EVERETT. Predicting the "Wits" appraisal from the ANB angle, 636
RUNE, BODIL, SARNÄS, KARL-VICTOR, SELVIK, GÖRAN, AND JACOBSSON, STEN. Movement of maxillary segments after expansion and/or secondary bone grafting in cleft lip and palate: A roentgen stereophotogrammetric study with the aid of metallic implants, 643

S

SARNÄS, KARL-VICTOR. (*See* RUNE ET AL.), 643
SELVIK, GÖRAN. (*See* RUNE ET AL.), 643
SHANFELD, JOSEPH L. (*See* DAVIDOVITCH ET AL.), 14, 33
SHAPIRO, EVERETT. (*See* ROTBERG ET AL.), 636
SHOWFETY, KEVIN J. (*See* VIG, SHOWFETY, AND PHILLIPS), 258
SIMPSON, LESLIE O. (*See* KARDOS AND SIMPSON), 508
SKALAK, RICHARD. (*See* MOSS ET AL.), 591
SKOGAN, OYSTEIN. (*See* ZACHRISSON, SKOGAN, AND HÖYMYHR), 307
SMITH, RICHARD J. Misuse of hand-wrist radiographs, 75
SONDHI, ANOOP, CLEALL, JOHN F., AND BEGOLE, ELLEN A. Dimensional changes in the dental arches of orthodontically treated cases, 60
—. (*See* ARBUCKLE AND SONDHI), 626
STEIGMAN, SHULAMIT. (*See* DAVIDOVITCH ET AL.), 14, 33
STEINKE, R. M. (*See* WILLIAMSON ET AL.), 133
SWIFT, T. R. (*See* WILLIAMSON ET AL.), 133

T

THILANDER, BIRGIT. (*See* RÖNNERMAN, THILANDER, AND HEYDEN), 620
TIMMS, DONALD J. A study of basal movement with rapid maxillary expansion, 500
TRIRATANANIMIT, PONGSRI. (*See* LAMBERTON, REICHART, AND TRIRATANANIMIT), 320
TULLEY, W. J. Time and tide, 241

V

VIG, PETER S., SHOWFETY, KEVIN J., AND PHILLIPS, CEIB. Experimental manipulation of head posture, 258

VILMANN, HENNING. (*See* MOSS ET AL.), 591

W

WADE, DALE B., AND RACEY, GARY L. Modular intermaxillary fixation for surgical orthodontics, 613

WALTERS, ROLAND. (*See* ENGEL ET AL.), 1

WAY, DAVID C. (*See* PUS AND WAY), 269

WHITE, LARRY W. Behavioristic technique or oral hygiene—An update, 568

WILLIAMS, CRAIG E. (*See* JACOBS ET AL.), 284

WILLIAMSON, E. H., STEINKE, R. M., MORSE, P. K., AND SWIFT, T. R. Centric relation: A comparison of muscle-determined position and operator guidance, 133

WISTH, PER JOHAN, AND ISAKSEN, TORE S. Changes in the vertical position of the anterior teeth after surgical correction of mandibular protrusion, 174

Z

ZACHRISSON, BJÖRN, SKOGAN, OYSTEIN, AND HÖYMYHR, SVEIN. Enamel cracks in debonded, debanded, and orthodontically untreated teeth, 307

Reviews and abstracts

A

Arbit, Scott P., 346

B

Bailit, Howard L., 578, 579
Barnett, D. P., 578
Beumer, John, III, 234
Broussard, Rayfus Joseph, 348

C

Carlsson, Gunnar E., 236
Carmen, Ronald B., 346
Cohen, Bertram, 697
Cole, Richard M., 113
Cross, Larry Dean, 347
Curtis, Thomas A., 234

D

Davidovitch, Zeev, 699

E

El-Mangoury, Nagwa Helmy, 347
El-Mofty, 699
Erales, F. A., 579

F

Firtell, David N., 234
Fischer, T. E., 579

G

Gillig, James, 113
Grossman, I. G., 111

H

Heller, Ira, 577

J

Joshi, M. R., 111

K

Ketterle, A., 699
Kulbersh, Richard, 113

L

Legan, H. L., 112

M

Manson-Hing, L. R., 579
Margolis, Herbert I., 345
Mason, David K., 697
Mishikawa, Tomikazu, 579
Moin, Kambiz, 112

N

Nanda, Ravindra, 112, 577
Naujoks, R., 699
Nelson, Robert J., 577
Nihei, Masahide, 579

O

Oda, Kunio, 579
Ogoshi, Hajime, 579
Ohashi, Masayoshi, 579

P

Poswillo, David E., 697

R

Reed, R. T., 111

S

Sakuda, M., 698
Sanders, Bruce, 235
Seel, Derek, 578
Seide, Leonard J., 235
Shaw, James H., 112
Smith, Richard J., 578, 579

T

Taylor, C. Glenn, 697
Thunthy, Kavas H., 111

U

Usui, Kiyoshi, 579

V

Vora, Jayang M., 111

W

Wada, K., 698
Watts, Samuel L., 698
Wiedemann, Von W., 699

Y

Yen, Peter K-j., 112

Z

Zarb, George A., 236

Subject index

A

Academy of General Dentistry Arbitron membership survey, 465
  public information programs, 702
Acid etching; retentive shear strength of various bonding attachment bases (Lopez), 669
Adaptation, respiratory; experimental manipulation of head posture (Vig, Showfety, and Phillips), 258
Airway assessment, inadequacy of cephalometric radiographs for, 230 (Letters to editor)
Allergic children, bruxism in (Marks), 48
Alloy, formable; beta titanium (Burstone and Goldberg), 121
Alveolar bone, histochemical and electron microscopic study of adhesive type of collagen attachment on resorptive surfaces of (Kurihara and Enlow), 532
  remodeling; dentomaxillary complex and overjet correction in Class II, Division 1 malocclusion (Meikle), 184
American Association of Oral and Maxillofacial Surgeons; international congress planned by Dutch and American orthodontists, 118
American Association of Orthodontists, 198
  eightieth annual session, 349
    preliminary program, 198
    preparations near completion for, 114
  John L. Miles joins staff, 349
  meeting calendar, 113, 226, 348, 467, 589, 703
  new logo, 349
  officers and organizations, directory, 120, 240, 354, 468, 590, 704
  public education film, "Orthodontics and You," 351
American Board of Orthodontics, 97
  annual oral examinations and case presentations, 119
  certifies thirty-eight candidates during 1980 examinations, 690
  changes requirements, 689
  diplomate/diplomat, 97
American Dental Association gains hospital accreditation seat, 464
American Dental Association—Cont'd
  1979 House of Delegates, 117
  letters supporting fluoridation, 702
  membership up 22 percent, 587, 701
  urges Congress to restruct FTC authority, 116
American Fund for Dental Health announces research and project grants, 588
AMERICAN JOURNAL OF ORTHODONTICS, newly created editorial board, 114
Anatomy of manuscript, 106 (Editorial)
ANB angle, predicting "Wits" appraisal from (Rotberg et al.), 636
Anchorage bends and Class II elastics, effects of, on lower anterior teeth on anchor molars with Begg technique, 458 (B. rev.)
Ankylosis, dentoalveolar; ankylosed teeth as abutments for palatal expansion in rhesus monkey (Guyman, Kōkich, and Oswald), 486
  of temporomandibular joint following surgical treatment, cephalometric studies of patients with, 699 (Abst.)
Apert's syndrome; early and late surgery in craniofacial dysostosis (Coccaro et al.), 421
Appliance, new removable, for Class II treatment, 345
  removable; time and tide (Tulley), 241
Arches, dental occlusion and, variation in, among Melanesians of Bougainville Island, Papua New Guinea, 578, 579 (Absts.)
  pattern design, segment concept in (Robnett), 355
Asthma patients, orthodontic evaluation of, 348 (Abst.)
Atkinson, Spencer Roane, named to USC Dental Hall of Fame, 580
Australian Society of Orthodontists, 117
Aversive conditioning; behavioristic technique or oral hygiene (White), 568

B

Bands, loose; behavioristic technique of oral hygiene (White), 568
Basal movement with rapid maxillary expansion (Timms), 500

January, pp. 1-120; February, pp. 121-240; March, pp. 241-354; April, pp. 355-468; May, pp. 469-590; June, pp. 591-718.

Begg technique, effects of anchorage bends and Class II elastics on lower anterior teeth on anchor molars with, 458 (B. rev.)
Behavioristic technique or oral hygiene (White), 568
Beta-aminopropionitrile, orthodontic tooth movement in rats treated with, 577 (Abst.)
titanium: new orthodontic alloy (Burstone and Goldberg), 121
Bimaxillary protrusion as pathologic problem in Thai (Lamberton, Reichart, and Triratananimit), 320
Biomechanics of differences in lower facial height (Throckmorton, Finn, and Bell), 410
Bite force; biomechanics of differences in lower facial height (Throckmorton, Finn, and Bell), 410
Biting, maximal; activity of temporal and masseter muscles in Class II, Division 1 malocclusions (Pancherz), 679
Bonding attachment bases, retentive shear strength of various (Lopez), 669
effects of recycling on metallic direct-bond orthodontic brackets (Buchman), 654
enamel cracks in debonded, debanded, and orthodontically untreated teeth (Zachrisson, Skogan, and Höymyhr), 307
orthodontic, with filled and unfilled resins using various clean-up techniques, enamel loss due to (Pus and Way), 269
Bone, attachments between periodontal fibers and, during alveolar remodeling, electron microscopic study (Kurihara and Enlow), 516
grafting, secondary, movement of maxillary segment after expansion and/or, in cleft lip and palate (Rune et al.), 643
metabolism associated with tooth eruption and orthodontic movement, 699 (Abst.)
remodeling, electric currents, and orthodontic tooth movement (Davidovitch et al.), 1, 33
resorption; electron microscopic study of attachments between periodontal fibers and bone during alveolar remodeling (Kurihara and Enlow), 516
Brackets, metallic direct-bond, orthodontic, effects of recycling on (Buchman), 654
British Association of Orthodontists, 352, 466
Bruxism in allergic children (Marks), 48

C

Calcification; tooth mineralization as indicator of pubertal growth spurt (Chertkow), 79
Canadian Association of Orthodontists, 118, 351, 586
Canine root movement: evaluation of root springs (Arbuckle and Sondhi), 626
transplanted, orthodontic tooth movement of, 578 (Abst.)
Caries, dental, saliva and; white spots, 109 (Editorial)
Cements; retentive shear strength of various bonding attachment bases (Lopez), 669
Cements—Cont'd
silicate, influence of fluorides on properties of set product of, 579 (Abst.)
Centers of rotation produced by orthodontic forces, holographic determination of (Burstone and Pryputniewicz), 396
Centric relation: comparison of muscle-determined position and operator guidance (Williamson et al.), 133
Cephalometric analysis; applicability of occipital reference base in cephalometrics (Fränkel), 379
predicting "Wits" appraisal from ANB angle (Rotberg et al.), 636
appraisal of xeroradiography (Chate), 547
radiographs, inadequacy of, for airway assessment, 230 (Letter to editor)
standards (chronological and skeletal), analysis of, 697 (Abst.)
Cephalometrics; early and late surgery in craniofacial dysostosis (Coccaro et al.), 421
Cephalometry; point A revisited (Jacobson and Jacobson), 92
Chew, influence of, on swallow, 577 (Abst.)
Chewing; activity of temporal and masseter muscles in Class II, Division 1 malocclusions (Pancherz), 679
Clean-up techniques, enamel loss due to orthodontic bonding with filled and unfilled resins using various (Pus and Way), 269
Cleft lip and cleft palate, surgically repaired, mandibular growth in individuals with, 111 (Abst.)
movement of maxillary segments after expansion and/or secondary bone grafting in (Rune et al.), 643
palate children, predicting normal speech for, 701
persons, cephalometric analysis of morphology of cranial base and bony nasopharynx in, 346 (Abst.)
Collagen attachment, adhesive type of, on resorptive surfaces of alveolar bone, histochemical and electron microscopic study of (Kurihara and Enlow), 532
physical characteristics; new periodontal membrane biology based upon thixotropic concepts (Kardos and Simpson), 508
Collagenous fibers; electron microscope study of attachments between periodontal fibers and bone during alveolar remodeling (Kurihara and Enlow), 516
Computers, use of, in private practice, 450 (Editorial)
Condyle, mandibular, position; centric relation (Williamson et al.), 133
occipital; applicability of occipital reference base in cephalometrics (Fränkel), 379
Control of transverse dimension with surgery and orthodontics (Jacobs et al.), 284
Cranial base and bony nasopharynx in cleft palate persons, cephalometric analysis of morphology of, 346 (Abst.)

Craniofacial deformities; early and late surgery in craniofacial dysostosis (Coccaro et al.), 421
morphology and individual growth pattern, principal component analysis of, 698 (Abst.)
orthopedics, orthodontics and, 695 (Editorial)
pains: differential diagnosis, 457 (B. rev.)
Crouzon's disease; early and late surgery in craniofacial dysostosis (Coccaro et al.), 421
Crowding, mandibular anterior, in untreated cases and its predictability, study of, 346 (Abst.)
Crown infraction; enamel cracks in debonded, debanded, and orthodontically untreated teeth (Zachrisson, Skogan, and Höymyhr), 307
Cyclic nucleotides, periodontal, increase in rate of tooth movement and levels of, by combined force and electric current; electric currents, bone remodeling, and orthodontic tooth movement (Davidovitch et al.), 33
effect of electric currents on; electric currents, bone remodeling, and orthodontic tooth movement (Davidovitch et al.), 14

D

Debonding; enamel cracks in debonded, debanded, and orthodontically untreated teeth (Zachrisson, Skogan, and Höymyhr), 307
loss due to orthodontic bonding with filled and unfilled resins using various clean-up techniques (Pus and Way), 269
Deep-bite cases, treatment of (Engel et al.), 1
Dehiscence, expansion and fenestration or, 330 (Editorial)
Dental arches of orthodontically treated cases, dimensional changes in (Sondhi, Cleall, and BeGole), 60
caries, saliva and—white spots, 109 (Editorial)
esthetic self-evaluation and satisfaction (Graber and Lucker), 163
occlusion and arches, variation in, among Melanesians of Bougainville, Island, Papua New Guinea, 578, 579 (Absts.)
Practice Act, AB 1339 amends, 702
research on protective effect of mother's milk, 699 (Abst.)
share of Medicaid dollar reduced, 702
specialties, handbook of, 458 (B. rev.)
Dentistry, new scientific foundation for, 459 (B. rev.)
restorative, dynamic approach to, 235 (B. rev.)
Dentition, mixed, nonextraction treatment started in (Nachbar), 98
Dentomaxillary complex and overjet correction in Class II, Division 1 malocclusion: objectives of skeletal and alveolar remodeling (Meikle), 184
Devlin, Gerard A., Award, presentation to Robert Hedges by Charles Jonas, 583
response, 583
Dutch Society of Oral and Maxillofacial Surgery; international congress planned by Dutch and American orthodontists, 118
Dysostosis, craniofacial, early and late surgery in (Coccaro et al.), 421
Dysplasia, anteroposterior and vertical, study of orthodontic relapse in subjects with varying degrees of, 347 (Abst.)

E

Ear disorders; bruxism in allergic children (Marks), 48
Editorial: anatomy of a manuscript, 105
expansion and fenestration or dehiscence, 330
Jacob Amos Salzmann—leader, educator, editor, 692
orthodontics and craniofacial orthopedics, 695
philosophizing on educational goals, 227
scientific evolution and homeostasis, 447
use of computers in private practice, 450
white spots—saliva and dental caries, 109
Educational goals, philosophizing on, 227 (Editorial)
Electric currents, bone remodeling, and orthodontic tooth movement (Davidovitch et al.), 14, 33
Electromyographic activity of temporal and masseter muscles in Class II, Division 1 malocclusions (Pancherz), 679
Electromyography in study of centric relation (Williamson et al.), 133
Enamel cracks in debonded, debanded, and orthodontically untreated teeth (Zachrisson, Skogan, and Höymyhr), 307
loss due to orthodontic bonding with filled and unfilled resins using various clean-up techniques (Pus and Way), 269
Esthetics, dental, self-evaluation and satisfaction (Graber and Lucker), 163
European Orthodontic Society, fifty-sixth congress of, 467
Expansion and fenestration or dehiscence, 330 (Editorial)
and/or secondary bone grafting in cleft lip and palate, movement of maxillary segments after (Rune et al.), 643
Extractions, premolar, in orthodontic treatment, long-term results of, 111 (Abst.)
sites, gingival tissue reactions to orthodontic closure of (Rönnerman, Thilander, and Heyden), 620
time and tide (Tulley), 241

F

Facial growth: misuse of hand-wrist radiographs (Smith), 75
height, lower, biomechanics of differences in (Throckmorton, Finn, and Bell), 410
postsurgical adaptations after decreasing, in monkeys, 112 (Abst.)
trauma and concomitant problems, 360 (B. rev.)

Facial—Cont'd
type, comparative analysis of intrusion of incisor teeth achieved in adults and children according to (Otto, Anholm, and Engel), 437
Federal Trade Commission, ADA urges Congress to restrict authority of, 116
Fenestration or dehiscence, expansion and, 330 (Editorial)
Films, occlusal and screen, comparison of xeroradiographs with, 111 (Abst.)
Fluoridation, ADA letters supporting, 702
Fluorides, influence of, on properties of set product of silicate cement, 579 (Abst.)
topical, 238
Force, orthodontic, application, effect on pulpal tissue respiration rate in human premolar (Hamersky and Taintor), 368
holographic determination of centers of rotation produced by (Burstone and Pryputniewicz), 396
French Association of Orthodontists, 466
French Society of Dento-Facial Orthopedics, fifty-third congress of, 239

G

Gingival tissue reactions to orthodontic closure of extraction sites (Rönnerman, Thilander, and Heyden), 620
Golden age of orthodontics revisited, 461
Graber, T. M., new editor of Reviews and Abstracts, 700
Growth, craniofacial, space, time, and space-time in (Moss et al.), 591
facial; misuse of hand-wrist radiographs (Smith), 75
mandibular, in surgically repaired cleft lip and cleft palate individuals, 111 (Abst.)
pattern, individual, principal component analysis of craniofacial morphology and, 698 (Abst.)
spurt, pubertal; misuse of hand-wrist radiographs (Smith), 75

H

Hand-wrist radiographs, misuse of (Smith), 75
Head posture; experimental manipulation of (Vig, Showfety, and Phillips), 258
natural; applicability of occipital reference base in cephalometrics (Fränkel), 379
Headgear, unilateral: lateral forces as unavoidable side effects, 333 (Letters to editor)
Help sought in search for missing patients, 116, 465, 587
Holographic determination of centers of rotation produced by orthodontic forces (Burstone and Pryputniewicz), 396
Homeostasis, scientific evolution and, 447 (Editorial)

I

Ideal arch pattern; segment concept in arch pattern design (Robnett), 355
Implants, metallic; movement of maxillary segments after expansion and/or secondary bone grafting in cleft lip and palate (Rune et al.), 643
In memoriam, Albert C. Berger, 454
Reuben Lloyd Blake, 344
Wallace D. Burt, 575
Benjamin S. Fellman, 454
Samuel David Gore, 576
Marvin A. Gould, 342
Rudolf P. Hotz, 452
Harold D. Kesling, 574
Jacob C. Lifton, 453
Willis J. McCormick, 455
John Hain Parker, 341
Leo Michael Shanley, 342
Arthur Cranston Totten, 456
Incisor intrusion achieved in adults and children, comparative analysis of, according to facial type (Otto, Anholm, and Engel), 437
in reduction of overbite; dimensional changes in dental arches or orthodontically treated cases (Sondhi, Cleall, and BeGole), 60
treatment of deep-bite cases (Engel et al.), 1
Intellectual performance in children with tongue-thrust swallow, 113 (Abst.)
Intercanine width; dimensional changes in dental arches of orthodontically treated cases (Sondhi, Cleall, and BeGole), 60
Interhamular width; study of basal movement with rapid maxillary expansion (Timms), 500
Interincisal angle; bimaxillary protrusion as pathologic problem in Thai (Lamberton, Reichart, and Trirattananimit), 320
Intermaxillary fixation, modular, for surgical orthodontics (Wade and Racey), 613
Intermolar width; dimensional changes in dental arches of orthodontically treated cases (Sondhi, Cleall, and BeGole), 60
International congress planned by Dutch and American orthodontists, 118

J

Japan Orthodontic Society, 588
Jarabak, Joseph R., honored by European journals, 237

K

Kinematics; space, time, and space-time in craniofacial growth (Moss et al.), 591
Kinesiograph and myomonitor, evaluation of anterior open-bite utilizing, 698 (Abst.)

L

Landmarks, craniofacial; cephalometric appraisal of xeroradiography (Chate), 547
Letters to editor, 230, 333
Logarithmic spiral; space, time, and space-time in craniofacial growth (Moss et al.), 591

M

Malocclusions, Class II, Division 1, activity of temporal and masseter muscles in (Pancherz), 679
dentomaxillary complex and overjet correction in: objectives of skeletal and alveolar remodeling (Meikle), 184
nonextraction treatment started in mixed dentition (Nachbar), 98
Mandibular anterior crowding in untreated cases, study of, and its predictability, 346 (Abst.)
growth in surgically repaired cleft lip and cleft palate individuals, 111 (Abst.)
protrusion, changes in vertical position of anterior teeth after surgical correction of (Wisth and Isaksen), 174
rotation; treatment of deep-bite cases (Engel et al.), 1
sagittal subapical osteotomy (Murray), 469
Manuscript, anatomy of, 106 (Editorial)
Masticating muscles; biomechanics of differences in lower facial height (Throckmorton, Finn, and Bell), 410
Maturation, skeletal; tooth mineralization as indicator of pubertal growth spurt (Chertkow), 79
Maxillary etched retainer, 578 (Abst.)
expansion, rapid, basal movement with (Timms), 500
Maxillofacial rehabilitation: prosthetic and surgical considerations, 234 (B. rev.)
surgery; biomechanics of differences in lower facial height (Throckmorton, Finn, and Bell), 410
Medicaid, dental share reduced, 702
Medical office handbook, Webster's, 457 (B. rev.)
Melanesians of Bougainville Island, Papua New Guinea, variation in dental occlusion and arches in, 578, 579 (Absts.)
Metallurgy; effects of recycling on metallic direct-bond orthodontic brackets (Buchman), 654
Middle Atlantic Society of Orthodontics, 352
Joseph M. LeMense, Jr., installed as president, 585
presentation of Devlin Award to Robert Hedges by Charles Jonas, 583
response, 583
Midsagittal structures; applicability of occipital reference base in cephalometrics (Fränkel), 379
Midwestern Society of Orthodontists, 237
Miles, John L., joins AAO staff, 349
Milk, mother's, dental research on protective effect of, 699 (Abst.)
Modular intermaxillary fixation for surgical orthodontics (Wade and Racey), 613
Molar extrusion or eruption in reduction of overbite; dimensional changes in dental arches of orthodontically treated cases (Sondhi, Cleall, and BeGole), 60
Mouth breathing; bimaxillary protrusion as pathologic problem in Thai (Lamberton, Reichart, and Triratananimit), 320
Muscle imbalance; bimaxillary protrusion as pathologic problem in Thai (Lamberton, Reichart, and Triratananimit), 320
temporal and masseter, activity of, in Class II, Division 1 malocclusions (Pancherz), 679
Myomonitor and kinesiograph, evaluation of anterior open-bite utilizing, 698 (Abst.)

N

Nasal septum in *Macaca fascicularis*, 112 (Abst.)
Nasopharynx, bony, cranial base and, in cleft palate persons, cephalometric analysis of morphology of, 346 (Abst.)
National dental health survey, 115
National Merit Award of Orthodontic Education and Research Foundation, 582
News and comment, 114, 237, 349, 461, 580, 700

O

Observer error; cephalometric appraisal of xeroradiography (Chate), 547
Occipital reference base, applicability of, in cephalometrics (Fränkel), 379
Occlusion, dental arches and, variation in, among Melanesians of Bougainville Island, Papua New Guinea, 578, 579 (Absts.)
Open-bite, anterior, evaluation of, utilizing kinesiograph and myomonitor, 698 (Abst.)
Oral hygiene, behavioristic technique or (White), 568
surgery and pathology—self-assessment manual, 697 (B. rev.)
Orthodontic appliances; beta titanium (Burstone and Goldberg), 121
bonding with filled and unfilled resins using various clean-up techniques, enamel loss due to (Pus and Way), 269
brackets, metallic direct-bond, effects of recycling on (Buchman), 654
closure of extraction sites, gingival tissue reactions to (Rönnerman, Thilander, and Heyden), 620
force application, effect of, on pulpal tissue respiration rate in human premolar (Hamersky, Weimer, and Taintor), 368
holographic determination of centers of rotation produced by (Burstone and Pryputniewicz), 396
relapse in subjects with varying degrees of anteroposterior and vertical dysplasia, study of, 347 (Abst.)
Teachers' Conference, 588
tooth movement, bone metabolism associated with tooth eruption and, 699 (Abst.)
in rats treated with lathyrogen beta-aminopropionitrile, 577 (Abst.)
of transplanted canine, 578 (Abst.)
treatment, long-term results of premolar extractions in, 111 (Abst.)

Orthodontic—Cont'd
of poor children, Supreme Court upholds order requiring, 586
Orthodontic Education and Research Foundation, National Merit Award of, 582
Orthodontics and craniofacial orthopedics, 695 (Editorial)
and you, AAO public education film, 351
control of transverse dimension with surgery and (Jacobs et al.), 284
golden age of, revisited, 461
surgical, modular intermaxillary fixation for (Wade and Racey), 613
Osteotomy, mandibular sagittal subapical (Murray), 469
oblique vertical ramus; changes in vertical position of anterior teeth after surgical correction of mandibular protrusion (Wisth and Isaksen), 174
Otomandibular syndrome; bruxism in allergic children (Marks), 48
Overbite; dimensional changes in dental arches of orthodontically treated cases (Sondhi, Cleall, and BeGole), 60
Overjet correction in Class II, Division 1 malocclusion, dentomaxillary complex and: objectives of skeletal and alveolar remodeling (Meikle), 184

P

Pacific Coast Society of Orthodontists, 117, 351, 586
Pains, craniofacial, 457 (B. rev.)
Palatal expansion, ankylosed teeth as abutments for, in rhesus monkey (Guyman, Kōkich, and Oswald), 486
Pediatric oral and maxillofacial surgery, 235 (B. rev.)
Periodontal cyclic nucleotides, effect of electric currents on; electric currents, bone remodeling, and orthodontic tooth movement (Davidovitch et al.), 14
increase in rate of tooth movement and levels of, by combined force and electric current; electric currents, bone remodeling, and orthodontic tooth movement (Davidovitch et al.), 33
disease, early detection of, 587
fibers and bone, electron microscopic study of attachments between, during alveolar remodeling (Kurihara and Enlow), 516
membrane biology, new, based upon thixotropic concepts (Kardos and Simpson), 508
histochemical and electron microscopic study of adhesive type of collagen attachment on resorptive surfaces of alveolar bone (Kurihara and Enlow), 532
Point A revisited (Jacobson and Jacobson), 92
Point paths; space, time, and space-time in craniofacial growth (Moss et al.), 591
Positive reinforcement; behavioristic technique or oral hygiene (White), 568
Practice announcements, 239, 353, 467, 589, 703
Practice—Cont'd
cost, annual, is $56,000.00, 466
management, applied: strategy for stress control, 459 (B. rev.)
private, use of computers in, 450 (Editorial)
Premolar extractions in orthodontic treatment, long-term results of, 111 (Abst.)
human, effect of orthodontic force application on pulpal tissue respiration rate in (Hamersky and Taintor), 368
Proteoglycans; histochemical and electron microscopic study of adhesive type of collagen attachment on resorptive surfaces of alveolar bone (Kurihara and Enlow), 532
Protrusion, mandibular, changes in vertical position of anterior teeth after surgical correction of (Wisth and Isaksen), 174
Pubertal growth spurt; misuse of hand-wrist radiographs (Smith), 75
tooth mineralization as indicator of (Chertkow), 79
Pulp tissue respiration rate in human premolar, effect of orthodontic force application on (Hamersky and Taintor), 368

Q

Quadrilateral analysis, application of, to age group five to nine, 347 (Abst.)

R

Radiation bill, 466
Radiographs, cephalometric, inadequacy of, for airway assessment, 230 (Letters to editor)
duplicated, study of quality of, 579 (Abst.)
hand-wrist, misuse of (Smith), 75
Radiography; cephalometric appraisal of xeroradiography (Chate), 547
point A revisited (Jacobson and Jacobson), 92
Radiorespirometry; effect of orthodontic force application on pulpal tissue respiration rate in human premolar (Hamersky and Taintor), 368
Rapid maxillary expansion, basal movement with (Timms), 500
Recession, lower anterior tissue; mandibular sagittal subapical osteotomy (Murray), 569
Recycling, effects of, on metallic direct-bond orthodontic brackets (Buchman), 654
Regeneration; mandibular sagittal subapical osteotomy (Murray), 569
Resilience; beta titanium: new orthodontic alloy (Burstone and Goldberg), 121
Resins, filled and unfilled, orthodontic bonding with, using various clean-up techniques, enamel loss due to (Pus and Way), 269
Respiration; experimental manipulation of head posture (Vig, Showfety, and Phillips), 258
pulpal tissue, rate in human premolar, effect of orthodontic force application on (Hamersky and Taintor), 368

Restorative dentistry, dynamic approach to, 235 (B. rev.)
Retainer, maxillary etched, 578 (Abst.)
Reversal lines; histochemical and electron microscopic study of adhesive type of collagen attachment on resorptive surfaces of alveolar bone (Kurihara and Enlow), 532
Rocky Mountain Society of Orthodontists, 118
Roentgen stereophotogrammetry; movement of maxillary segments after expansion and/or secondary bone grafting in cleft lip and palate (Rune et al.), 643
Root, canine, movement; evaluation of root springs (Arbuckle and Sondhi), 626

S

Saliva and dental caries—white spots, 109 (Editorial)
Salzmann, Jacob Amos—leader, educator, editor, 692 (Editorial)
Scientific evolution and homeostasis, 447 (Editorial)
Segment concept in arch pattern design (Robnett), 355
Self-assessment manual: oral surgery and pathology, 697 (B. rev.)
Sesamoid; tooth mineralization as indicator of pubertal growth spurt (Chertkow), 79
Sex dimorphism; misuse of hand-wrist radiographs (Smith), 75
Shear strengths, retentive, of various bonding attachment bases (Lopez), 669
Skeletal age; misuse of hand-wrist radiographs (Smith), 75
  maturation; tooth mineralization as indicator of pubertal growth spurt (Chertkow), 79
  remodeling; dentomaxillary complex and overjet correction in Class II, Division 1 malocclusion (Meikle), 184
Southern Society has new president, 350
Space, time, and space-time in craniofacial growth (Moss et al.), 591
Spanish Society of Orthodontics (Sociedad Española de Ortodoncia), 239
Speech, normal, predicting, for cleft palate children, 701
Springs, root, evaluation of: canine root movement (Arbuckle and Sondhi), 626
State funding of orthodontic treatment; time and tide (Tulley), 241
Stress control, strategy for: applied practice management, 459 (B. rev.)
Supreme Court upholds order requiring orthodontic treatment of poor children, 586
Surgery and orthodontics, control of transverse dimension with (Jacobs et al.), 284
  early and late, in dysostosis (Coccaro et al.), 421
  pediatric oral and maxillofacial, 235 (B. rev.)
Surgical correction of mandibular protrusion, changes in vertical position of anterior teeth after (Wisth and Isaksen), 174
  orthodontics, modular intermaxillary fixation for (Wade and Racey), 613
Sutures, intermaxillary and interpremaxillary; ankylosed teeth as abutments for palatal expansion in rhesus monkey (Guyman, Kökich, and Oswald), 486
Swallow, influence of chew on, 577 (Abst.)
  tongue-thrust, intellectual performance in children with, 113 (Abst.)

T

Teeth, ankylosed, as abutments for palatal expansion in rhesus monkey (Guyman, Kökich, and Oswald), 486
  anterior, changes in vertical position of, after surgical correction of mandibular protrusion (Wisth and Isaksen), 174
  appearance of; dental esthetic self-evaluation and satisfaction (Graber and Lucker), 163
  debonded, debanded, and orthodontically untreated, enamel cracks in (Zachrisson, Skogan, and Höymyhr), 307
Temporomandibular joint, ankylosis of, following surgical treatment, cephalometric studies of patients with, 699 (Abst.)
  function and dysfunction, 236 (B. rev.)
Thai dental students; bimaxillary protrusion as pathologic problem in Thai (Lamberton, Reichart, and Triratananimit), 320
Thixotropy, new periodontal membrane biology based upon concepts of (Kardos and Simpson), 508
Time and tide (Tulley), 241
  space, and space-time in craniofacial growth (Moss et al.), 591
Titanium, beta: new orthodontic alloy (Burstone and Goldberg), 121
Tongue behavior; time and tide (Tulley), 241
Tongue-thrust swallow, intellectual performance in children with, 113 (Abst.)
Tooth attachments; electron microscopic study of attachments between periodontal fibers and bone during alveolar remodeling (Kurihara and Enlow), 516
  histochemical and electron microscopic study of adhesive type of collagen attachment on resorptive surfaces of alveolar bone (Kurihara and Enlow), 532
  eruption and orthodontic movement, bone metabolism associated with, 699 (Abst.)
  mineralization as an indicator of pubertal growth spurt (Chertkow), 79
  movement, increase in rate of, and periodontal cyclic nucleotide levels by combined force and electric current; electric currents, bone remodeling, and orthodontic tooth movement (Davidovitch et al.), 33
  new periodontal membrane biology based upon thixotropic concepts (Kardos and Simpson), 508
  orthodontic, electric currents, bone remodeling, and (Davidovitch et al.), 14, 33
  in rats treated with lathyrogen beta-aminopropionitrile, 577 (Abst.)

Tooth movement—Cont'd
of transplanted canine, 578 (Abst.)
transplantation, autogenic (Northway and Konigsberg), 146
Traction, extraoral; dentomaxillary complex and overjet correction in Class II, Division 1 malocclusion (Meikle), 184
Transverse dimension, control of, with surgery and orthodontics (Jacobs et al.), 284
Trauma, facial, and concomitant problems, 460 (B. rev.)
mandibular sagittal subapical osteotomy (Murray), 569
Traumatic injuries; enamel cracks in debonded, debanded, and orthodontically untreated teeth (Zachrisson, Skogan, and Höymyhr), 307
Treatment, nonextraction, started in mixed dentition (Nachbar), 98
stages; early and late surgery in craniofacial dysostosis (Coccaro et al.), 421
timing of; time and tide (Tulley), 241

V

Vertical position of anterior teeth, changes in, after surgical correction of mandibular protrusion (Wisth and Isaksen), 174
Vision; experimental manipulation of head posture (Vig, Showfety, and Phillips), 258

W

Webster's medical office handbook, 457 (B. rev.)
White spots—saliva and dental caries, 109 (Editorial)
Wits appraisal, predicting, from ANB angle (Rotberg et al.), 636

X

Xeroradiographs, comparison of, with occlusal and screen films, 111 (Abst.)
Xeroradiography, cephalometric appraisal of (Chate), 547

Author index

A

ALBINO, JUDITH E. (*See* SLAKTER ET AL.), 421, 559

ANDREASEN, GEORGE. A clinical trial of alignment of teeth using a 0.019 inch thermal nitinol wire with a transition temperature range between 31° C. and 45° C., 528

— AND ZWANZIGER, DAVID. A clinical evaluation of the differential force concept as applied to the edgewise bracket, 25

ANEHUS-PANCHERZ, M. (*See* PANCHERZ AND ANEHUS-PANCHERZ), 321

AYALA PEREZ, CARLOS, DE ALBA, J. ALFREDO, CAPUTO, ANGELO A., AND CHACONAS, SPIRO J. Canine retraction with J hook headgear, 538

B

BAUMRIND, SHELDON, AND MILLER, DAVID M. Computer-aided head film analysis: The University of California San Francisco method, 41

BEGOLE, ELLEN A. (*See* SADOWSKY AND BEGOLE), 201

BELL, W. H. (*See* SCHEIDEMAN ET AL.), 404

BOOKSTEIN, FRED L. (*See* MOYERS ET AL.), 477

BRÄNNSTRÖM, M. (*See* NORDENVALL, BRÄNNSTRÖM, AND MALMGREN), 99

C

CALDWELL, CHARLES R., WORMS, FRANK W., AND GATTO, DANIEL J. Orthodontic and surgical intervention to arrest tooth loss secondary to subgingival elastic, 273

CAPUTO, ANGELO A. (*See* AYALA ET AL.), 538

CEEN, RICHARD F., AND GWINNETT, A. JOHN. Microscopic evaluation of the thickness of sealants used in orthodontic bonding, 623

CHACONAS, SPIRO J. (*See* AYALA ET AL.), 538

CHAO, EDMUND Y. S. (*See* HIRCE, SATHER, AND CHAO), 444

CORRUCCINI, ROBERT S., AND POTTER, ROSARIO H. YAP. Genetic analysis of occlusal variation in twins, 140

CRUMP, PETER. (*See* DANN, CRUMP, AND RINGENBERG), 564

D

DANN, JOHN J., III, CRUMP, PETER, AND RINGENBERG, QUENTIN M. Vertical maxillary deficiency with cleidocranial dysplasia, 564

DE ALBA, J. ALFREDO. (*See* AYALA ET AL.), 538

DELIVANIS, HELEN P., AND KUFTINEC, MLADEN M. Variation in morphology of the maxillary central incisors found in Class II, Division 2 malocclusions, 438

DIAMOND, OLWYN. Tonsils and adenoids: Why the dilemma? 495

DICKINSON, PHILLIP T., AND POWERS, JOHN M. Evaluation of fourteen direct-bonding orthodontic bases, 630

E

EPKER, BRUCE N., AND FISH, LEWARD C. Surgical superior repositioning of the maxilla: What to do with the mandible? 164

ERDMAN, ARTHUR G. (*See* HULTGREN ET AL.) 310

F

FINN, R. A. (*See* SCHEIDEMAN ET AL.), 404

FISH, LEWARD C. (*See* EPKER AND FISH), 164

FONSECA, RAYMOND J. (*See* FROST ET AL.), 657

FOX, RICHARD N. (*See* SLAKTER ET AL.), 559

FRANK, CHARLES A., AND NIKOLAI, ROBERT J. A comparative study of frictional resistances between orthodontic bracket and arch wire, 593

FROST, DAVID E., FONSECA, RAYMOND J., TURVEY, TIMOTHY A., AND HALL, DAVID J. Cephalometric diagnosis and surgical-orthodontic correction of apertognathia, 657

G

GARDNER, DONALD E., LUSCHEI, ERICH S., AND JOONDEPH, DONALD R. Alterations in the facial skeleton of the guinea pig following a lesion of the trigeminal motor nucleus, 66

GATTO, DANIEL J. (*See* CALDWELL, WORMS, AND GATTO), 273

July, pp. 1-124; August, pp. 125-242; September, pp. 243-360; October, pp. 361-476; November, pp. 477-592; December, pp. 593-710.

GEIGER, ARNOLD M. Mucogingival problems and the movement of mandibular incisors: A clinical review, 511
GIDDON, DONALD B. (*See* HERSHON AND GIDDON), 279
GJERMO, PER. (*See* ØGAARD, GJERMO, AND RØLLA), 266
GOLDIN, BRUCE. (*See* NANDA AND GOLDIN), 213
GREEN, LARRY J. (*See* SLAKTER et al.), 421
GUIRE, KENNETH E. (*See* MOYERS et al.), 477
GWINNETT, A. JOHN. (*See* CEEN AND GWINNETT), 623

H

HALL, DAVID J. (*See* FROST ET AL.), 657
HANSON, G. HERBERT. The SPEED system: A report on the development of a new edgewise appliance, 243
HARRIS, EDWARD F., AND SMITH, RICHARD J. A study of occlusion and arch widths in families, 155
HEATH, M. ROBIN. Measurement of cephalometric radiographs: Methods of analyzing data on a regional basis and improving reading efficiency, 303
HERSHON, LEO E., AND GIDDON, DONALD B. Determinants of facial profile self-perception, 279
HIRCE, JOHN D., SATHER, A. HOWARD, AND CHAO, EDMUND Y. S. The effect of topical fluorides, after acid etching of enamel, on the bond strength of directly bonded orthodontic brackets, 444
HULTGREN, BRUCE W., ISAACSON, ROBERT J., ERDMAN, ARTHUR G., WORMS, FRANK W., AND REKOW, E. DIANNE. Growth contribution to Class II corrections based on models of mandibular morphology, 310

I

INMAN, GARY O. (*See* KUFTINEC AND INMAN), 81
ISAACSON, ROBERT J. (*See* HULTGREN ET AL.), 310

J

JÄRVINEN, SEPPO. Relation of the SNA angle to the saddle angle, 670
JOONDEPH, DONALD R. (*See* GARDNER, LUSCHEI, AND JOONDEPH), 66

K

KERBER, PAUL E. (*See* STALEY AND KERBER), 296
KUFTINEC, MLADEN M., AND INMAN, GARY O. A comparison of plain versus multilooped arch wires in Stage I of Begg therapy, 81
— . (*See* DELIVANIS AND KUFTINEC), 438

L

LEGAN, H. L. (*See* SCHEIDEMAN ET AL.), 404
LEWIS, EUGENE A. (*See* SLAKTER ET AL.), 421, 559
LOWE, ALAN A. Correlations between orofacial muscle activity and craniofacial morphology in a sample of control and anterior open-bite subjects, 89
LUSCHEI, ERICH S. (*See* GARDNER, LUSCHEI, AND JOONDEPH), 66

M

MCCOLLUM, ANTONY G. H., AND PRESTON, CHARLES BRIAN. Maxillary canine retraction, periodontal surgery, and relapse, 610
MALMGREN, O. (*See* NORDENVALL, BRÄNNSTRÖM, AND MALMGREN), 99
MILLER, DAVID M. (*See* BAUMRIND AND MILLER), 41
MOYERS, ROBERT E., RIOLO, MICHAEL L., GUIRE, KENNETH E., WAINRIGHT, ROBERT L., AND BOOKSTEIN, FRED L. Differential diagnosis of Class II malocclusions, 477
MUGUERZA, OSCAR E., AND SHAPIRO, PETER A. Palatal mucoperiostomy: An attempt to reduce relapse after slow maxillary expansion, 548

N

NAKASIMA, AKIHIKO, NAKATA, SHUNSUKE, SHIMIZU, KENJI, AND TAKAHAMA, YASUHIDE. Radiologic exposure conditions and resultant skin doses in application of xeroradiography to the orthodontic diagnosis, 646
NAKATA, SHUNSUKE. (*See* NAKASIMA ET AL.), 646
NANDA, RAVINDRA. Biomechanical and clinical considerations of a modified protraction headgear, 125
— AND GOLDIN, BRUCE. Biomechanical approaches to the study of alteration of facial morphology, 213
NIKOLAI, ROBERT J. (*See* FRANK AND NIKOLAI), 593
NORDENVALL, K-J., BRÄNNSTRÖM, M., AND MALMGREN, O. Etching of deciduous teeth and young and old permanent teeth, 99

O

ØGAARD, BJØRN, GJERMO, PER, AND RØLLA, GUNNAR. Plaque-inhibiting effect in orthodontic patients of a dentifrice containing stannous fluoride, 266

P

PANCHERZ, H., AND ANEHUS-PANCHERZ, M. Muscle activity in Class II, Division 1 malocclusion treated by bite jumping with the Herbst appliance, 321
POPOVICH, FRANK. (*See* SAUNDERS, POPOVICH, AND THOMPSON), 394
POTTER, ROSARIO H. YAP. (*See* CORRUCCINI AND POTTER), 140
POWERS, JOHN M. (*See* DICKINSON AND POWERS), 630
PRESTON, CHARLES BRIAN. (*See* MCCOLLUM AND PRESTON), 610

PROFFIT, WILLIAM R., VIG, KATHERINE W. L., AND TURVEY, TIMOTHY A. Early fracture of the mandibular condyles: Frequently an unsuspected cause of growth disturbances, 1

R

REISCH, J. S. (*See* SCHEIDEMAN ET AL.), 404
REKOW, E. DIANNE. (*See* HULTGREN ET AL.), 310
RICH, SANDRA K. Behavior modification for orthodontic patients: An exploratory approach to patient education, 426
RINGENBERG, QUENTIN M. (*See* DANN, CRUMP, AND RINGENBERG), 564
RIOLO, MICHAEL L. (*See* MOYERS ET AL.), 477
RØLLA, GUNNAR. (*See* ØGAARD, GJERMO, AND RØLLA), 266
RUBIN, ROBERT M. Mode of respiration and facial growth, 504

S

SADOWSKY, CYRIL, AND BEGOLE, ELLEN A. Long-term status of temporomandibular joint function and functional occlusion after orthodontic treatment, 201
SATHER, A. HOWARD. (*See* HIRCE, SATHER, AND CHAO), 444
SAUNDERS, SHELLEY R., POPOVICH, FRANK, AND THOMPSON, GORDON W. A family study of craniofacial dimensions in the Burlington Growth Centre sample, 394
SCHEIDEMAN, G. B., BELL, W. H., LEGAN, H. L., FINN, R. A., AND REISCH, J. S. Cephalometric analysis of dentofacial normals, 404
SHANNON, IRA L. Comparison of orthodontic cements containing sodium fluoride or stannous fluoride, 640
SHAPIRO, PETER A. (*See* MUGUERZA AND SHAPIRO), 548
SHIMIZU, KENJI. (*See* NAKASIMA et al.), 646
SLAKTER, MALCOLM A., ALBINO, JUDITH E., FOX, RICHARD N. AND LEWIS, EUGENE A. Reliability and stability of the Orthodontic Patient Cooperation Scale, 559
— , — , GREEN, LARRY J., AND LEWIS, EUGENE A. Validity of an orthodontic treatment priority index to measure need for treatment, 421
SMITH, RICHARD J. (*See* HARRIS AND SMITH), 155
STALEY, ROBERT N., AND KERBER, PAUL E. A revision of the Hixon and Oldfather mixed-dentition prediction method, 296

T

TAKAHAMA, YASUHIDE. (*See* NAKASIMA et al.), 646
THOMPSON, GORDON W. (*See* SAUNDERS, POPOVICH, AND THOMPSON), 394
TREMONT, TIMOTHY J. An investigation of the variability between the optic plane and Frankfort horizontal, 192
TURVEY, TIMOTHY A. (*See* FROST ET AL.), 657
— . (*See* PROFFIT, VIG, AND TURVEY), 1
TUVERSON, DONALD L. Anterior interocclusal relations, 361, 371

V

VIG, KATHERINE W. L. (*See* PROFFIT, VIG, AND TURVEY), 1

W

WAERHAUG, JENS. Eruption of teeth into crowded position, loss of attachment, and downgrowth of subgingival plaque, 453
WAINRIGHT, ROBERT L. (*See* MOYERS ET AL.), 477
WORMS, FRANK W. (*See* CALDWELL, WORMS, AND GATTO), 273
— . (*See* HULTGREN ET AL.), 310

Z

ZWANZIGER, DAVID. (*See* ANDREASEN AND ZWANZIGER), 25

Reviews and abstracts

A

Antal, M., 336
Arya, Bhupendra Singh, 335

B

Bench, Ruel W., 463
Blake, Robert E., 234
Bond, Anthea M., 229
Brantley, William A., 230, 234
Brayer, L., 336

C

Carlson, David S., 582
Cohen, A. M., 229
Conover, John P., 234
Cooper, Herbert K., Sr., 580
Cozzani, G., 232
Cunningham, J., 466

F

Fleischer, A., 339

G

Garberoglio, R., 232
Gedalia, I., 336
Gerlach, H. G., 584
Gianelly, Anthony A., 337
Gilmore, H. William, 584
Gugino, Carl F., 463
Gunther, H.-M., 229

H

Harding, Robert L., 580
Harper, Dennis C., 231
Hectman, Lily, 230
Hilgers, James J., 463
Hurt, William C., 584

I

Inman, G. O., 338

J

Johnson, Roger G., 2.3

K

Kent, R. L., Jr., 339
Krogman, Wilton M., 580
Kuftinec, M. M., 338

L

Laskin, Daniel M., 465
Lebret, L. M. L., 339
Loesche, Walter J., 335

M

McDonald, Ralph E., 584
McNamara, James A., Jr., 582
Manson-Hing, Lincoln R., 463
Marshall, David, 337
Mazaheri, D. Sej Mohammod, 580
Middleton, Robert A., 584
Millard, Robert T., 580
Miller, James R., 336
Moeller, Dade W., 230
Moorrees, C. F. A., 339
Muir, J. D., 116
Myers, C. Louis, 230

N

Nakamura, Shinji, 336

O

Odenrick, Lars, 338

P

Pape, Harry R., 335
Perryman, James H., 583
Phillipe, J. J., 115

R

Rakosi, Thomas, 581
Ranley, Don M., 465
Reed, E. T., 116
Renson, C. E., 116
Ribbens, Katherine A., 582
Richman, Lynn C., 231
Ricketts, Robert M., 463
Roberts, David, 680
Rutz, A., 337

S

Sarnat, Bernard G., 465
Savara, Bhim Sen, 231, 231, 335, 336
Schinzel, Albert A. G. L., 336
Schulhof, Robert J., 463
Schulze, Chr., 338
Sela, M., 336
Silverstone, Leon M., 584
Singh, A. B., 231, 231
Sitzmann, F., 229
Smith, David W., 336
Spencer, Steven M., 580
Stabholtz, A., 336
Stolurow, K. Ann Coleman, 230
Strahan, J. D., 583
Svanberg, Mona L., 335

T

Takeuchi, Yutaka, 336
Thilander, B., 231
Trossello, Vincent K., 337
Tyldesley, W. E., 115

W

Waite, Ian M., 583
Weiss, Gabrielle, 230
Williams, D. F., 466
Winders, Robert V., 234

Subject index

A

Acid etching; microscopic evaluation of thickness of sealants used in orthodontic bonding (Ceen and Gwinnett), 623
Adenoids and tonsils (Diamond), 495
  enlarged; mode of respiration and facial growth (Rubin), 504
Adhesives; evaluation of fourteen direct-bonding orthodontic bases (Dickinson and Powers), 630
  microscopic evaluation of thickness of sealants used in orthodontic bonding (Ceen and Gwinnett), 623
American Association of Orthodontists, award for senior dental students, 472
  constituent societies, allocation of delegates, 588
  council chairmen elected for 1980-1981, 358
  councils, 1980-1981, 238
  delegates, allocation of, 588
  Distinguished Service Scroll, presentation to Robert D. Splain, 352
    response, 352
  to Wilbur J. Prezzano, 351
    response, 352
  eightieth annual session, overview of, 235
    lectures available, 346
    photographs, 347-350
  eighty-first annual session, 467
    registration of nonmembers, 587
  establishes new table clinic award, 346
  House of Delegates in action, 347
  leadership, 227 (Editorial)
  meeting calendar, 123, 241, 359, 466, 585, 695
  membership totals 8,649, 358
  officers and organizations, directory, 124, 242, 360, 476, 592, 696
  public relations/advertising update, 119
  research prizes for 1981, 468
  Robert R. McGonagle current president, 588
  standing committees 1980-1981, 239
  Temporomandibular Joint Symposium, 472, 692
American Association of Oral and Maxillofacial Surgeons; U.S./ Dutch conference, 586
American Board of Orthodontics, 109, 330
  changes requirements, 123, 237
  examinations, 1980-1981, 330
  information, 475
  Phase III requirements, change in, 109
American Dental Association approves use of term "specialist," 240
  peer review publicity, 239
American Fund for Dental Health, 358
Angle, SNA, relation to saddle angle (Järvinen), 670
Ankylosis, functional mandibular; early fracture of mandibular condyles (Proffit, Vig, and Turvey), 1
Anodontia-pseudoanodontia; vertical maxillary deficiency with cleidocranial dysplasia (Dann, Crump, and Ringenberg), 564
Anomalies, craniofacial, 334 (Letter to editor)
Anterior interocclusal relations (Tuverson), 361, 371
Apertognathia, cephalometric diagnosis and surgical-orthodontic correction of (Frost et al.), 657
Appliance, edgewise, development of new: SPEED system (Hanson), 243
  Herbst, muscle activity in Class II, Division 1 malocclusions treated by bite jumping with (Pancherz and Anehus-Pancherz), 321
  removable, tooth movement with, 116 (B. rev.)
Arch length; anterior interocclusal relations (Tuverson), 361, 371
  widths and occlusion in families (Harris and Smith), 155
    growth changes in, from deciduous to permanent dentition, 231 (Abst.)
  wire, frictional resistances between orthodontic bracket and (Frank and Nikolai), 593
    plain versus multilooped, in Stage I of Begg therapy (Kuftinec and Inman), 81
    straight v. multilooped, in Stage I of Begg therapy, 338 (Abst.)
Arthritis, juvenile rheumatoid, potential micrognathia in children with, 338 (Abst.)

July, pp. 1-124; August, pp. 125-242; September, pp. 243-360; October, pp. 361-476; November, pp. 477-592; December, pp. 593-710.

B

Bacterium involved in juvenile periodontitis, 240
Begg technique; clinical evaluation of differential force concept as applied to edgewise bracket (Andreasen and Zwanziger), 25
therapy, comparison of plain versus multilooped arch wires in Stage I of (Kuftinec and Inman), 81
straight v. multilooped arch wires in Stage I of, 338 (Abst.)
Behavior modification for orthodontic patients (Rich), 426
Bioprogressive therapy, 463 (B. rev.)
Bite forces and occlusal balance parameters, measurement of, using photoplastics, 680 (Abst.)
jumping with Herbst appliance, muscle activity in Class II, Division 1 malocclusions treated by (Pancherz and Anehus-Pancherz), 321
Bond strength of directly bonded orthodontic brackets, effect of topical fluorides, after acid etching of enamel, on (Hirce, Sather, and Chao), 444
Bonding, direct, orthodontic bases, evaluation of fourteen (Dickinson and Powers), 630
in orthodontics, method of, 115 (B. rev.)
of orthodontic brackets; etching of deciduous teeth and young and old permanent teeth (Nordenvall, Brännström, and Malmgren), 99
attachments to porcelain teeth using silane coupling agent, new method for, 233 (Abst.)
thickness of sealants used in, microscopic evaluation (Ceen and Gwinnett), 623
Bone displacement; biomechanical approaches to study of alterations of facial morphology (Nanda and Goldin), 213
sphenoid, longitudinal growth study of, using factor analysis, 336 (Abst.)
Bracket, edgewise, clinical evaluation of differential force concept as applied to (Andreasen and Zwanziger), 25
orthodontic, and arch wire, frictional resistances between (Frank and Nikolai), 593
directly bonded, effect of topical fluorides, after acid etching of enamel, on bond strength of (Hirce, Sather, and Chao), 444

C

California Dental Association honors Clarence Honig, 117
Canine, maxillary, retraction, periodontal surgery, and relapse (McCollum and Preston), 610
retraction with J hook headgear (Ayala et al.), 538
Cements, orthodontic, containing sodium fluoride or stannous fluoride, comparison of (Shannon), 640
Cephalometric analysis, atlas and guide to practical, 581 (B. rev.)
of dentofacial normals (Scheideman et al.), 404
relation of SNA angle to saddle angle (Järvinen), 670
Cephalometric—Cont'd
diagnosis and surgical-orthodontic correction of apertognathia (Frost et al.), 657
radiographs, measurement of (Heath), 303
Cephalometrics; computer-aided head film analysis: University of California San Francisco method (Baumrind and Miller), 41
family study of craniofacial dimensions in Burlington Growth Centre sample (Saunders, Popovich, and Thompson), 394
investigation of variability between optic plane and Frankfort horizontal (Tremont), 192
Chicago Pediatric Society, Dr. Pruzansky elected to honorary membership, 474
Child, hyperactive, syndrome, 230 (Abst.)
Cleft palate and cleft lip, 580 (B. rev.)
Cleidocranial dysplasia, vertical maxillary deficiency with (Dann, Crump, and Ringenberg), 564
Cluster analysis; differential diagnosis of Class II malocclusions (Moyers et al.), 477
Competency—that elusive quality, 341 (Sagehorn)
Computer aided head film analysis: University of California San Francisco method (Baumrind and Miller), 41
based statistical methods; differential diagnosis of Class II malocclusions (Moyers et al.), 477
evolution or revolution, 674 (Editorial)
morphometrics; cephalometric analysis of dentofacial normals (Scheideman et al.), 404
Condyles, mandibular, early fracture of, frequently unsuspected cause of growth disturbances (Proffit, Vig, and Turvey), 1
Connecticut Society of Orthodontists, Robert H. Strang Award, 471
Counseling, patient; behavior modification for orthodontic patients (Rich), 426
Craniofacial anomalies, 334 (Letter to editor)
dimensions, family study of, in Burlington Growth Centre sample (Saunders, Popovich, and Thompson), 394
growth, synopsis of, 465 (B. rev.)
morphology, correlations between orofacial muscle activity and, in sample of control and anterior open-bite subjects (Lowe), 89
relation of SNA angle to saddle angle (Järvinen), 670
region, muscle adaptation in, 582 (B. rev.)
Crowding, tooth; eruption of teeth into crowded position, loss of attachment, and downgrowth of subgingival plaque (Waerhaug), 453

D

Dental Assistants Recognition Week, 346
Dental arch variables, correlations among, 231 (Abst.)
aspect of Gottron syndrome, 229 (Abst.)
explorer, intraoral transmission of *Streptococcus mutans* by, 335 (Abst.)
radiography, panoramic, 463 (B. rev.)
x-ray use in Boston, 230 (Abst.)

Dentifrice containing stannous fluoride, plaque-inhibiting effect of, in orthodontic patients (Øgaard and Rølla), 266
Dentistry, clinical, materials in, 466 (B. rev.)
current therapy in, 584 (B. rev.)
, preventive, 584 (B. rev.)
Dentition, natural, changes in, after second molar emergence, 339 (Abst.)
Dentofacial form; tonsils and adenoids (Diamond), 495
normals, cephalometric analysis of (Scheideman et al.), 404
Diagnosis, cephalometric, and surgical-orthodontic correction of apertognathia (Frost et al.), 657
oral, 115 (B. rev.)
orthodontic, radiologic exposure conditions and resultant skin doses in application of xeroradiography to (Nakasima et al.), 646
Differential force concept as applied to edgewise bracket, clinical evaluation (Andreasen and Zwanziger), 25
DiPaolo, Rocco J., receives leadership award, 586
Disease, oral, 116 (B. rev.)
Dutch Society of Orthodontists and Dutch Society of Oral and Maxillofacial Surgery; U.S./Dutch conference, 586
Dysplasia, cleidocranial, vertical maxillary deficiency with (Dann, Crump, and Ringenberg), 564

E

Edgewise appliance, development of new: SPEED system (Hanson), 243
bracket, clinical evaluation of differential force concept as applied to (Andreasen and Zwanziger), 25
Editorial, AAO leadership, 227
an individual compass for extraction, 111
computer evolution or revolution, 674
doubt and certainty on growth and maturation assessment in orthodontics, 578
hereditary environment, 331
management—a selection process, 575
parts of holism, 460
Education, patient; behavior modification for orthodontic patients (Rich), 426
will present postgraduate orthodontic programs survive (DiStasio), 682
Elastic bands, subgingival, orthodontic and surgical intervention to arrest tooth loss secondary to (Caldwell, Worms, and Gatto), 273
Enamel, acid etching of, effect of topical fluorides after, on bond strength of directly bonded orthodontic brackets (Hirce, Sather, and Chao), 444
etched, in vivo effect of oral environment on, 232 (Abst.)
etching of deciduous teeth and young and old permanent teeth (Nordenvall, Brännström, and Malmgren), 99
reduction, mesiodistal; anterior interocclusal relations (Tuverson), 361, 371
Enamel—Cont'd
solubility and hardness; comparison of orthodontic cements containing sodium fluoride or stannous fluoride (Shannon), 640
Environment, hereditary, 331 (Editorial)
study of occlusion and arch widths in families (Harris and Smith), 155
Esthetics; validity of orthodontic treatment priority index to measure need for treatment (Slakter et al.), 421
Etching, acid, of enamel, effect of topical fluorides after, on bond strength of directly bonded orthodontic brackets (Hirce, Sather, and Chao), 444
of deciduous teeth and young and old permanent teeth (Nordenvall, Brännström, and Malmgren), 99
Extraction, individual compass for, 111 (Editorial)
Extraoral anchorage; canine retraction with J hook headgear (Ayala et al.), 538

F

Face height, anterior; mode of respiration and facial growth (Rubin), 504
Facial asymmetry; alterations in facial skeleton of guinea pig following lesion of trigeminal motor nucleus (Gardner, Luschei, and Joondeph), 66
early fracture of mandibular condyles (Proffit, Vig, and Turvey), 1
growth, mode of respiration and (Rubin), 504
morphology, alterations of, biomechanical approaches to study of (Nanda and Goldin), 213
or orthopedic disfigurement, self-identified personality patterns of children with, 231 (Abst.)
profile self-perception, determinants of (Hershon and Giddon), 279
skeleton of guinea pig, alterations in, following lesion of trigeminal motor nucleus (Gardner, Luschei, and Joondeph), 66
types associated with Class II malocclusions (Moyers et al.), 477
Fluoride cement; comparison of orthodontic cements containing sodium fluoride or stannous fluoride (Shannon), 640
dentifrices with and without, effect of toothbrushing with, on oral hygiene and number of leukocytes in gingival fluid, 336 (Abst.)
topical, effect of, after acid etching of enamel, on bond strength of directly bonded orthodontic brackets (Hirce, Sather, and Chao), 444
Fogel, Maxwell, receives special recognition, 474
Force, differential, concept as applied to edgewise bracket, clinical evaluation (Andreasen and Zwanziger), 25
variables; biomechanical approaches to study of alterations of facial morphology (Nanda and Goldin), 213

Fracture, early, of mandibular condyles: frequently unsuspected cause of growth disturbances (Proffit, Vig, and Turvey), 1
Frankfort horizontal, variability between optic plane and (Tremont), 192
Friction between orthodontic bracket and arch wire, comparative study (Frank and Nikolai), 593

G

Genetic analysis of occlusal variation in twins (Corruccini and Potter), 140
research; hereditary environment, 331 (Editorial)
Genetics; family study of craniofacial dimensions in Burlington Growth Centre sample (Saunders, Popovich, and Thompson), 394
study of occlusion and arch widths in families (Harris and Smith), 155
Gingiva, attached, minimal; mucogingival problems and movement of mandibular incisors (Geiger), 511
Gottron syndrome in its dental aspect, 229 (Abst.)
Growth and maturation assessment in orthodontics, doubt and certainty on, 578 (Editorial)
changes in arch widths from deciduous to permanent dentition, 231 (Abst.)
comparative, of tongue and intermaxillary space, 229 (Abst.)
contributions to Class II corrections based on models of mandibular morphology (Hultgren et al.), 310
craniofacial, synopsis of, 465 (B. rev.)
disturbances, early fracture of mandibular condyles frequently unsuspected cause of (Proffit, Vig, and Turvey), 1
facial, mode of respiration and (Rubin), 504
modification; biomechanical and clinical considerations of modified protraction headgear (Nanda), 125
tongue and mandibular, relationship between, 229 (Abst.)

H

Head film analysis, computer-aided; University of California San Francisco method (Baumrind and Miller), 41
Headgear, J hook, canine retraction with (Ayala et al.), 538
modified protraction, biomechanical and clinical considerations of (Nanda), 125
Health education; behavior modification for orthodontic patients (Rich), 426
Help sought in search for missing patients, 236, 345, 694
Herbst appliance, muscle activity in Class II, Division 1 malocclusions treated by bite jumping with (Pancherz and Anehus-Pancherz), 321
Hereditary environment, 331 (Editorial)
Heritability; genetic analysis of occlusal variation in twins (Corruccini and Potter), 140
Heritability—Cont'd
study of occlusion and arch widths in families (Harris and Smith), 155
Holism, parts of, 460 (Editorial)
Honig, Clarence, honored by California Dental Association, 117
Hyperactive child syndrome, 230 (Abst.)

I

Immune response; tonsils and adenoids (Diamond), 495
In memoriam, Curtis E. Burson, 114
Walter Coolidge Chapin, 677
Hugo V. Isabella, 679
W. Glenn Phillips, 114
Harold Schwartz, 678
M. Jay Zweibach, 677
Incisors, mandibular, mucogingival problems and movement of (Geiger), 511
maxillary central, found in Class II, Division 2 malocclusions, variation in morphology of (Delivanis and Kuftinec), 438
three mandibular, treatment of cases with; anterior interocclusal relations (Tuverson), 371
Intermaxillary space, comparative growth of tongue and, 229 (Abst.)
Interocclusal relations, anterior (Tuverson), 361, 371

J

J hook headgear, canine retraction with (Ayala et al.), 538
Jarabak Memorial Lecture Award, Ronald Roth receives, 238

K

Ketcham, Albert H., Memorial Award, presentation to Eugene E. West, 354
response, 355
to Faustin N. Weber, 356
response, 357

L

Landmark location; computer-aided head film analysis: University of California San Francisco method (Baumrind and Miller), 41
Leeway space, analysis of, 335 (Abst.)
Letter to editor, 334
Lingual posture; measurement of cephalometric radiographs (Heath), 303
Lip posture, incompetent; mode of respiration and facial growth (Rubin), 504
Lollipops, public interest versus, 339 (Abst.)

M

McGonagle, Robert R., current president of AAO, 588
Malocclusions, Class II, differential diagnosis (Moyers et al.), 477
growth contributions to corrections of, based on models of mandibular morphology (Hultgren et al.), 310

Malocclusion—Cont'd
Division 1, muscle activity in, treated by bite jumping with Herbst appliance (Pancherz and Anehus-Pancherz), 321
Division 2, variation in morphology of maxillary central incisors found in (Delivanis and Kuftinec), 438
Class III: biomechanical and clinical considerations of modified protraction headgear (Nanda), 125
indications for orthodontic treatment, 231 (Abst.)
on terminology of mandibular prognathism, 339 (Abst.)
correlations between orofacial muscle activity and craniofacial morphology in sample of control and anterior open-bite subjects (Lowe), 89
validity of orthodontic treatment priority index to measure need for treatment (Slakter et al.), 421
Mandible, what to do with, during surgical superior repositioning of maxilla (Epker and Fish), 164
Mandibular condyles, early fracture of, frequently unsuspected cause of growth disturbances (Proffit, Vig, and Turvey), 1
growth, relationship between tongue and, 229 (Abst.)
morphology, growth contributions to Class II corrections based on models of (Hultgren et al.), 310
Maxilla, surgical superior repositioning of (Epker and Fish), 164
Maxillary canine retraction, periodontal surgery, and relapse (McCollum and Preston), 610
deficiency, vertical, with cleidocranial dysplasia (Dann, Crump, and Ringenberg), 564
expansion, slow, palatal mucoperiostomy for reduction of relapse after (Muguerza and Shapiro), 548
Measurement of bite forces and occlusal balance parameters using photoplastics, 680 (Abst.)
of cephalometric radiographs (Heath), 303
Micrognathia, potential, in children with juvenile rheumatoid arthritis, 338 (Abst.)
Middle Atlantic Society of Orthodontists, 121
Molar correction, 232 (Abst.)
second, emergence, changes in natural dentition after, 339 (Abst.)
Mouth breathing; tonsils and adenoids (Diamond), 495
Movement of mandibular incisors, mucogingival problems and (Geiger), 511
Mucogingival problems and movement of mandibular incisors (Geiger), 511
Mucoperiostomy, palatal (Muguerza and Shapiro), 548
Muscle activity in Class II, Division 1 malocclusions treated by bite jumping with Herbst appliance (Pancherz and Anehus-Pancherz), 321
adaptation in craniofacial region, 582 (B. rev.)
Muscle—Cont'd
orofacial, activity, and craniofacial morphology, correlations between, in sample of control and anterior open-bite subjects (Lowe), 89

N

Nasopharyngeal airway; mode of respiration and facial growth (Rubin), 504
National Children's Dental Health Month, 691
News and comment, 117, 235, 341, 467, 586, 682
Nitinol wire, 0.019 inch thermal, with transition temperature range between 31° C. and 45° C., clinical trial of alignment of teeth using (Andreasen), 528
North American Begg Society, twelfth meeting, 120
Northeastern Society of Orthodontists to hold 1980 meeting in New York City, 122
Northwestern Orthodontic Alumni Association, 121

O

Occlusal balance parameters, measurement of bite forces and, using photoplastics, 680 (Abst.)
variation in twins, genetic analysis of (Corruccini and Potter), 140
Occlusion, anatomically perfect, relationship of tooth measurements to, 584 (B. rev.)
and arch width in families, study of (Harris and Smith), 155
functional, and temporomandibular joint function after orthodontic treatment, long-term status of (Sadowsky and BeGole), 201
oral physiology and, 583 (B. rev.)
Open-bite, anterior; correlations between orofacial muscle activity and craniofacial morphology in sample of control subjects and subjects with (Lowe), 89
Optic plane and Frankfort horizontal, variability between (Tremont), 192
Oral diagnosis, 115 (B. rev.)
disease, 116 (B. rev.)
environment, in vivo effect of, on etched enamel, 232 (Abst.)
hygiene and number of leukocytes in gingival fluid, effect of toothbrushing with fluoride-free and fluoride-containing dentifrice on, 336 (Abst.)
physiology and occlusion, 583 (B. rev.)
Orofacial muscle activity, and craniofacial morphology, correlations between, in sample of control and anterior open-bite subjects (Lowe), 89
Orthodontic and surgical intervention to arrest tooth loss secondary to subgingival elastic (Caldwell, Worms, and Gatto), 273
attachments, direct bonding, to porcelain teeth, using silane coupling agent, new method for, 233 (Abst.)

Orthodontic—Cont'd
bases, evaluation of fourteen direct-bonding (Dickinson and Powers), 630
bonding, thickness of sealants used in, microscopic evaluation (Ceen and Gwinnett), 623
bracket and arch wire, frictional resistances between (Frank and Nikolai), 593
directly bonded, effect of topical fluorides, after acid etching of enamel, on bond strength of (Hirce, Sather, and Chao), 444
cements containing sodium fluoride or stannous fluoride, comparison of (Shannon), 640
diagnosis, radiologic exposure conditions and resultant skin doses in application of xeroradiography to (Nakasima et al.), 646
patients, behavior modification for (Rich), 426
Cooperation Scale, reliability and stability of (Slakter et al.), 559
plaque-inhibiting effect in, of dentifrice containing stannous fluoride (Øgaard and Rølla), 266
programs, postgraduate, future and survival of (DiStasio), 682
thesis listings for 1979-1980, 688
treatment and periodontal status, 337 (Abst.)
long-term status of temporomandibular joint function and functional occlusion after (Sadowsky and BeGole), 201
of Class III malocclusion, indications for, 231 (Abst.)
priority index, validity of, to measure need for treatment (Slakter et al.), 421
wires, comparison of stiffness and transverse bending tests for, 234 (Abst.)
small diameter, measurement of bending deformation for, 230 (Abst.)
Orthodontic Education and Research Foundation, 118
Orthodontics, doubt and certainty on growth and maturation assessment in, 578 (Editorial)
method of bonding in, 115 (B. rev.)
surgical; cephalometric diagnosis and surgical-orthodontic correction of apertognathia (Frost et al.), 657
vertical maxillary deficiency with cleidocranial dysplasia (Dann, Crump, and Ringenberg), 564
Orthopedic forces; biomechanical approaches to study of alterations of facial morphology (Nanda and Goldin), 213
Osteotomy, LeFort I; vertical maxillary deficiency with cleidocranial dysplasia (Dann, Crump, and Ringenberg), 564

P

Pacific Coast Society of Orthodontists, 120, 693
to meet in San Francisco, 241
Palatal mucoperiostomy (Muguerza and Shapiro), 548
Patient, Orthodontic, Cooperation Scale, reliability and stability of (Slakter et al.), 559
Peer review publicity, 239
Periodontal disease; eruption of teeth into crowded position, loss of attachment, and downgrowth of subgingival plaque (Waerhaug), 453
status, orthodontic treatment and, 337 (Abst.)
surgery, maxillary canine retraction, and relapse (McCollum and Preston), 610
Periodontitis, juvenile, bacterium involved in, 240
Periodontology, color atlas of, 583 (B. rev.)
Personality patterns, self-identified, of children with facial or orthopedic disfigurement, 231 (Abst.)
Photoelastic analysis of canine retraction with J hook headgear (Ayala et al.), 538
Photoplastics, measurement of bite forces and occlusal balance parameters using, 680 (Abst.)
Plaque inhibiting effect in orthodontic patients of dentifrice containing stannous fluoride (Øgaard and Rølla), 266
subgingival, eruption of teeth into crowded position, loss of attachment, and downgrowth of (Waerhaug), 453
Poulton, Donald, receives Robert H. Strang Award, 471
Practice announcements, 241, 359, 475, 591, 695
management, selection process, 575 (Editorial)
Prediction method, revision of Hixon and Oldfather mixed-dentition (Stanley and Kerber), 296
of craniofacial dimensions; family study of craniofacial dimensions in Burlington Growth Centre Sample (Saunders, Popovich, and Thompson), 394
of patient cooperation; reliability and stability of Orthodontic Patient Cooperation Scale (Slakter et al.), 559
Profile, facial, self-perception, determinants of (Hershon and Giddon), 279
Prognathism, etiology of, 338 (Abst.)
facial; relation of SNA angle to saddle angle (Järvinen), 670
mandibular, terminology of, 339 (Abst.)
skeletal; biomechanical and clinical considerations of modified protraction headgear (Nanda), 125
Pruzansky, Samuel, elected to honorary membership in Chicago Pediatric Society, 474

R

Radiographs, cephalometric, measurement of (Heath), 303
Radiography, panoramic dental, 463 (B. rev.)
radiologic exposure conditions and resultant skin doses in application of xeroradiography to orthodontic diagnosis (Nakasima et al.), 646
Relapse after slow maxillary expansion, palatal mucoperiostomy to reduce (Muguerza and Shapiro), 548
maxillary canine retraction, periodontal surgery, and (McCollum and Preston), 610

Respiration, mode of, and facial growth (Rubin), 504
tonsils and adenoids (Diamond), 495
Retraction, canine, with J hook headgear (Ayala et al.), 538
maxillary canine, periodontal surgery, and relapse (McCollum and Preston), 610
Rhinitis, allergic; mode of respiration and facial growth (Rubin), 504
Roberts, Eugenia Popesco, receives AAO Senior Dental Student Award, 472
Rotation, mandibular, centers of; growth contributions to Class II corrections based on models of mandibular morphology (Hultgren et al.), 310
Roth, Ronald, receives Jarabak Memorial Lecture Award, 238

S

Saddle angle, relation of SNA angle to (Järvinen), 670
Saint Louis University Department of Orthodontics, 119
Sealants used in orthodontic bonding, microscopic evaluation of thickness of (Ceen and Gwinnett), 623
Self-perception, facial profile, determinants of (Hershon and Giddon), 279
Silane coupling agent, new method for direct bonding orthodontic attachments to porcelain teeth using, 233 (Abst.)
Skeleton, facial, of guinea pig, alterations in, following lesion of trigeminal motor nucleus (Gardner, Luschei, and Joondeph), 66
Skull, human, engineering of, 337 (Abst.)
SNA angle, relation of, to saddle angle (Järvinen), 670
Southern Society of Orthodontists, 589
Southwestern Society of Orthodontists, 236
Space closure, anterior, 337 (Abst.)
SPEED system (Hanson), 243
Sphenoid bone, longitudinal growth study of, using factor analysis, 336 (Abst.)
Stannous fluoride, plaque-inhibiting effect of dentifrice containing, in orthodontic patients (Øgaard and Rølla), 266
Strang, Robert H., Award, 471
Streptococcus mutans, intraoral transmission of, by dental explorer, 335 (Abst.)
Structural defects, monozygotic twinning and, 336 (Abst.)
Surgery, maxillary; surgical superior repositioning of maxilla (Epker and Fish), 164
palatal mucoperiostomy (Muguerza and Shapiro), 548
periodontal, maxillary canine retraction, and relapse (McCollum and Preston), 610
Surgical-orthodontic correction of apertognathia, cephalometric diagnosis and (Frost et al.), 657
intervention to arrest tooth loss secondary to subgingival elastic (Caldwell, Worms, and Gatto), 273
Surgical orthodontics—Cont'd
orthodontics; cephalometric analysis of dentofacial normals (Scheideman et al.), 404
vertical maxillary deficiency with cleidocranial dysplasia (Dann, Crump, and Ringenberg), 564

T

Teeth, clinical trial of alignment of, using 0.019 inch thermal nitinol wire with transition temperature range between 31° C. and 45° C. (Andreasen), 528
deciduous and young and old permanent, etching of (Nordenvall, Brännström, and Malmgren), 99
eruption of, into crowded position, loss of attachment, and downgrowth of subgingival plaque (Waerhaug), 453
Temporomandibular joint, 465 (B. rev.)
function and functional occlusion after orthodontic treatment, long-term status of (Sadowsky and BeGole), 201
symposium, AAO, 472
Texas Association of Orthodontists, photographs, 468, 469
Therapy, bioprogressive, 463 (B. rev.)
current, in dentistry, 584 (B. rev.)
Thermal nitinol wire, 0.019 inch, with transition temperature range between 31° C. and 45° C., clinical trial of alignment of teeth using (Andreasen), 528
Thurow, Raymond C., honored by Washington University, 591
Tongue and intermaxillary space, comparative growth of, 229 (Abst.)
and mandibular growth, relationship between, 229 (Abst.)
Tonsils and adenoids (Diamond), 495
enlarged; mode of respiration and facial growth (Rubin), 504
Tooth loss secondary to subgingival elastic, orthodontic and surgical intervention to arrest (Caldwell, Worms, and Gatto), 273
measurements, relationship of, to anatomically perfect occlusion, 584 (B. rev.)
movement with removable appliances, 116 (B. rev.)
position; anterior interocclusal relations (Tuverson), 361, 371
size prediction; revision of Hixon and Oldfather mixed-dentition prediction method (Stanley and Kerber), 296
Toothbrushing with fluoride-free and fluoride-containing dentifrice, effect on oral hygiene and number of leukocytes in gingival fluid, 336 (Abst.)
Treatment, orthodontic, validity of orthodontic treatment priority index to measure need for (Slakter et al.), 421
priority index, validity of, to measure need for treatment (Slakter et al.), 421

Trigeminal motor nucleus, lesion of, alterations in facial skeleton of guinea pig following (Gardner, Luschei, and Joondeph), 66
Twinning, monozygotic, and structural defects, 336 (Abst.)
Twins, genetic analysis of occlusal variation in (Corruccini and Potter), 140

U

U.S./Dutch conference, 586

W

Washington University honors Dr. Thurow, 591
Wires, arch, plain versus multilooped, in Stage I of Begg therapy (Kuftinec and Inman), 81
Wires—Cont'd
orthodontic, comparison of stiffness and transverse bending tests for, 234 (Abst.)
small diameter, measurement of bending deformation for, 230 (Abst.)

X

Xeroradiography, application of, to orthodontic diagnosis, radiologic exposure conditions and resultant skin doses in (Nakasima et al.), 646
X-ray, dental, use in Boston, 230 (Abst.)

Y

Youth, what is, 645